

**Amendments to the Claims:**

This listing of the claims will replace all prior versions, and listings of the claims in this application.

1. (Currently amended) A system for controlling a light source within an area, the system comprising:

location means conceived to detect a position of at least one person within an area;

activity means conceived to detect a kind of activity performed by the at least one person within the area; and

lighting control means conceived to control the light source within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area; and

dating means conceived to determine a date and a time and the lighting control means is conceived to control the light source within the area in response to the determined date and time.

2. (Currently amended) The system according to claim 1, further comprising: A system for controlling a light source within an area, the system comprising:

location means conceived to detect a position of at least one person within an area;

activity means conceived to detect a kind of activity performed by the at least one person within the area;

lighting control means conceived to control the light source within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area; and

intensity means conceived to detect an intensity with which the kind of activity is performed by the at least one person and the lighting control means is conceived to control the light source within the area in response to the detected intensity.

Please cancel claim 3.

4. (Previously presented) The system according to claim 1, further comprising noise means conceived to detect noise within the area and the lighting control means is conceived to control the light source within the area in response to the detected noise.

5. (Previously presented) The system according to claim 1, further comprising motion means conceived to detect motion of the person within the area and the lighting control means is conceived to control the light source within the area in response to the detected motion.

6. (Previously presented) The system according to claim 1, further comprising preference means conceived to determine a preference of a person and the lighting control means is conceived to control the light source within the area in response to the preference of the at least one person.

7. (Currently amended) A method of controlling a light source within an area, the method comprising:

detecting a position of at least one person within an area;

detecting a kind of activity performed by the at least one person within the area;

and

controlling the light source within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area;

determining a date and a time; and

controlling the light source within the area in response to the determined date and time.

8. (Previously presented) The method according to claim 7, the method comprising detecting an intensity with which the kind of activity is performed by the at least one

person and the step of controlling the light source comprises controlling the light source within the area in response to the detected intensity.

9. (Previously presented) A lighting arrangement comprising the system according to claim 1.

10. (Previously presented) The system of claim 1, wherein the activity means is conceived to detect at least one kind of activity from the following kinds of activities:

- a person reading a book; and
- a person watching a television program.

11. (Previously presented) The system of claim 1, wherein the lighting control means is conceived to control multiple light sources within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area.

12. (Previously presented) The system of claim 1, wherein the location means is configured to detect the position of the at least one person based upon an analysis of video images of the area.

13. (Previously presented) The system of claim 1, wherein the activity means is configured to detect the kind of activity performed by the at least one person based upon an analysis of video images of the area.

14. (Previously presented) The system of claim 1, wherein the location means is configured to detect a position of at least a second person in the area, and the lighting control means is configured to control the light source within the area in response to the positions of the at least one person and the at least second person.

Please cancel claim 15.

16. (Previously presented) The method of claim 7, further comprising:  
detecting an audio signal within the area; and  
controlling the light source within the area in response to the detected audio signal.
17. (Previously presented) The method of claim 16, wherein the audio signal is a human voice.
18. (Previously presented) The method of claim 7, further comprising:  
analyzing received video images of the at least one person; and  
detecting the kind of activity performed by the at least one person within the area based at least in part upon the analysis.
19. (Previously presented) The method of claim 7, further comprising:  
detecting a position of at least a second person within the area; and  
controlling the light source within the area in response to the position of the at least second person.
20. (Previously presented) The lighting arrangement of claim 9, further comprising intensity means conceived to detect an intensity with which the kind of activity is performed by the at least one person and the lighting control means is conceived to control the light source within the area in response to the detected intensity.